

WHAT IS CLAIMED IS:

1. A fluororesin powder coating composition characterized by comprising a composite fluorinated copolymer (A) having a core/shell structure wherein core
5 particles are made of a fluorinated copolymer (A'), and their surfaces are covered with a resin having a glass transition temperature higher than that of the core particles, constituting shells.
2. The fluororesin powder coating composition according
10 to Claim 1, wherein the glass transition temperature of the core particles of the composite fluorinated copolymer (A) is from -40 to 50°C, and the glass transition temperature of the resin constituting the shells is from 60 to 150°C.
- 15 3. The fluororesin powder coating composition according to Claim 1, wherein the resin constituting the shells is a (meth)acrylate resin.
4. The fluororesin powder coating composition according to Claim 3, wherein the composite fluorinated copolymer
20 (A) is a powder obtained by emulsion-polymerizing a monomer mixture comprising (d) a (meth)acrylate, in the presence of the fluorinated copolymer (A') containing polymerized units based on (a) a fluoroolefin, to obtain an aqueous dispersion of a composite fluorinated
25 copolymer (A), and separating and drying the composite fluorinated copolymer (A) from the aqueous dispersion.
5. The fluororesin powder coating composition according

to Claim 3, wherein the composite fluorinated copolymer (A) is a powder obtained by emulsion-polymerizing, in the presence of the fluorinated copolymer (A') containing polymerized units based on (a) a fluoroolefin and
5 polymerized units based on (b) a vinyl monomer having a reactive group, a radical polymerizable monomer mixture comprising (c) a (meth)acrylate having a reactive group which reacts with the reactive group of the above (b), to form a bond, thereby to obtain an aqueous dispersion of a
10 composite fluorinated copolymer (A), and separating and drying the composite fluorinated copolymer (A) from the aqueous dispersion.

6. Particles for a powder coating material, made of a composite fluorinated copolymer (A) having a core/shell
15 structure wherein core particles are made of a fluorinated copolymer (A'), and their surfaces are covered with a resin having a glass transition temperature higher than that of the core particles, constituting shells.

20 7. The particles for a powder coating material according to Claim 6, wherein the glass transition temperature of the core particles of the composite fluorinated copolymer (A) is from -40 to 50°C, and the glass transition temperature of the resin constituting the shells is from
25 60 to 150°C.

8. The particles for a powder coating material according to Claim 6, wherein the resin constituting the shells is

a (meth)acrylate resin.

9. The particles for a powder coating material according to Claim 8, wherein the composite fluorinated copolymer (A) is a powder obtained by emulsion-polymerizing a
5 monomer mixture comprising (d) a (meth)acrylate, in the presence of the fluorinated copolymer (A') containing polymerized units based on (a) a fluoroolefin, to obtain an aqueous dispersion of a composite fluorinated copolymer (A), and separating and drying the composite
10 fluorinated copolymer (A) from the aqueous dispersion.
10. The particles for a powder coating material according to Claim 8, wherein the composite fluorinated copolymer (A) is a powder obtained by emulsion-polymerizing, in the presence of the fluorinated copolymer (A') containing
15 polymerized units based on (a) a fluoroolefin and polymerized units based on (b) a vinyl monomer having a reactive group, a radical polymerizable monomer mixture comprising (e) a (meth)acrylate having a reactive group which reacts with the reactive group of the above (b), to
20 obtain an aqueous dispersion of a composite fluorinated copolymer (A), and separating and drying the composite fluorinated copolymer (A) from the aqueous dispersion.